$$\frac{2}{1-3x} \leq 1 + \frac{2}{x-2}$$

$$\frac{2}{1-3x} \leq \frac{x-2+2}{x-2} \quad ; \quad \frac{2}{1-3x} \leq \frac{x}{x-2}$$

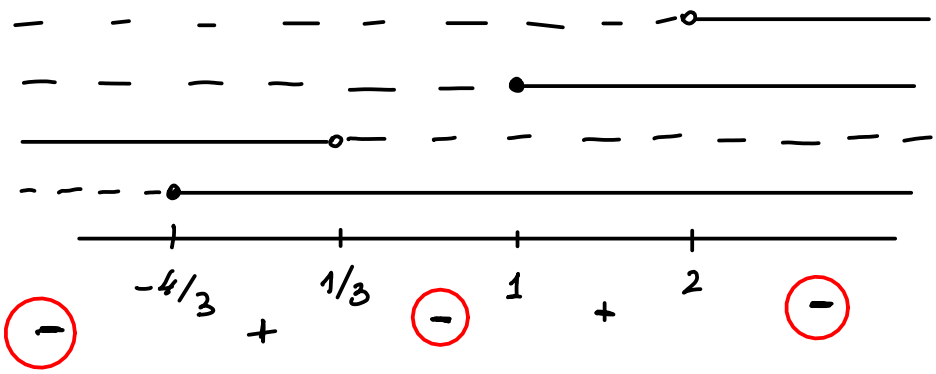
$$\frac{2}{1-3x} - \frac{x}{x-2} \leq 0 \qquad \text{mcm: } (1-3x)(x-2)$$

$$\frac{2(x-2) - x(1-3x)}{(1-3x)(x-2)} \leq 0 \quad ; \quad \frac{2x-4-x+3x^2}{(1-3x)(x-2)} \leq 0$$

$$\frac{3x^2+x-4}{(1-3x)(x-2)} \leq 0 \quad ; \quad \frac{3\left(x^2+\frac{1}{3}x-\frac{4}{3}\right)}{(1-3x)(x-2)} \leq 0$$

$$\frac{3(x-1)(x+4/3)}{(1-3x)(x-2)} \leq 0$$

- $x-1 \geq 0 \rightarrow x \geq 1$
- $x+4/3 \geqslant 0 \rightarrow x \geqslant -4/3$
- $1-3x > 0 \rightarrow x < 1/3$
- $x-2 > 0 \rightarrow x > 2$



$$x \leq -4/3 \quad \vee \quad 1/3 < x \leq 1 \quad \vee \quad x > 2$$